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DATE MAILED: 05/03/2006

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/065,174	09/24/2002	Kuo-Kun Tseng	ATCP0012USA	4894	
27765 75	27765 7590 05/03/2006			EXAMINER	
NORTH AME	ERICA INTELLECT	DUONG, FRANK			
P.O. BOX 506					
MERRIFIELD, VA 22116			ART UNIT	PAPER NUMBER	
·			2616		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/065,174	TSENG ET AL.				
		Examiner	Art Unit				
		Frank Duong	2616				
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with the o	orrespondence address				
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLEMENTED IS LONGER, FROM THE MAILING Designs of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statuted the process of the control of the mailing of the patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tire will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 24 S	September 2002.					
	This action is FINAL . 2b) This action is non-final.						
3)⊠	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)🖂	4)⊠ Claim(s) <u>1-15</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠	5)⊠ Claim(s) <u>1-15</u> is/are allowed.						
6)□	Claim(s) is/are rejected.						
·	Claim(s) is/are objected to.						
8)□	Claim(s) are subject to restriction and/o	or election requirement.					
Applicati	on Papers						
9)🖾	The specification is objected to by the Examine	er.					
10)🛛	The drawing(s) filed on 24 September 2002 is/	/are: a)⊠ accepted or b)⊡ objec	ted to by the Examiner.				
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	The oath or declaration is objected to by the E	xaminer. Note the attached Office	Action or form PTO-152.				
Priority u	ınder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
۵٫۱	1. Certified copies of the priority documents have been received.						
	Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the price	• •					
	application from the International Burea	u (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	t(s)						
1) Notic	1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application (PTO-152)							
Paper No(s)/Mail Date 6) Other:							

DETAILED ACTION

1. This Office Action is a response to communications dated 09/24/02. Claims 1-15 are pending in the application.

Information Disclosure Statement

2. The information disclosure statement filed 10/08/2002 complies with the provisions of 37 CFR 1.97, 1.98 and MPEP § 609. It has been considered and placed in the application file.

Ex parte Quayle

3. This application is in condition for allowance except for the following formal matters:

In the specification:

Page 18, "Figures" should be deleted.

In the claims:

Claim 10:

Line 9, "as one minus" should be changed to --as a result of one minus--.

Line 11, "said further result" should be changed to --said result further--.

Line 13, "the DMOS" should be changed to --the calculated DMOS--.

Claim 13:

Line 11, "as one minus" should be changed to --as a result of one minus--.

Line 13, "said further result" should be changed to --said result further--.

Line 15, "the LMOS" should be changed to --the calculated LMOS--.

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Prosecution on the merits is closed in accordance with the practice under *Ex* parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

Allowable Subject Matter

- 4. Claims 1-9 are allowed.
- 5. Claim 10-15 are allowed with a condition that the above discrepancies will be corrected by the Applicants in a response to this Office Action.
- 6. The following is an examiner's statement of reasons for allowance:

The prior art of record, considered individually or in combination, fails to fairly show or suggest a claimed method of adaptive playout, comprising, among other limitations, a novel and unobvious limitations of combining loss mean opinion score with delay means opinion score to determine a mean mean opinion score, structurally and functionally interconnected with other limitations in a manner as recited in claims 1-9.

The prior art of record, considered individually or in combination, fails to fairly show or suggest a claimed method of adaptive playout, comprising, among other limitations, a novel and unobvious limitations of calculating a delay mean opinion score (DMOS) of the packet as a result of one minus the normalized total delay, said result being raised to a power of a DMOS factor, and said result further being multiplied by a maximum means opinion score, structurally and functionally interconnected with other limitations in a manner as recited in claims 10-12.

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The prior art of record, considered individually or in combination, fails to fairly show or suggest a claimed method of adaptive playout, comprising, among other limitations, a novel and unobvious limitations of calculating a loss mean opinion score (LMOS) of the packet as a result of one minus the normalized packet loss rate, said result being raised to a power of a LMOS factor, and said result further being multiplied by a maximum means opinion score, structurally and functionally interconnected with other limitations in a manner as recited in claims 13-15.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

7. The prior/related art made of record and not relied upon is considered pertinent to applicant's disclosure.

Jain (USP 6,259,677).

Tseng et al (Patent Application Publication 2004/0057381).

Fujimoto, Adaptive Playout Buffer Algorithm for Enhancing Perceived Quality of Streaming Applications, Master's Thesis, pages 1-54, February 2002.

Lai et al, Perceptual Codec and Interaction Aware Playout Algorithms and Quality Measurement for VoIP Systems, IEEE, pages 297-305, 2004.

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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frank Duong whose telephone number is 571-272-

3164. The examiner can normally be reached on 7:00AM-3:30PM, Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ahmad Matar can be reached on 571-272-7488. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

FRANK DUONG PRIMARY EXAMINER

April 28, 2006